AK60A

100 Watts

AK60A-100 Economy Series

Total Power	*100 Watts*
Input Voltages	*24V*
# of Outputs	*Single*

AK60A Technical Manual - Click Here

SPECIAL FEATURES

- High efficiency - up to 88%
- 500 KHz Fixed frequency
- 100°C Baseplate operating temperature (with no derating)
- Low output ripple and noise
- Excellent transient response
- High reliability - over 1 million hours MTBF
- Wide input voltage range
- TTL compatible enable control
- Adjustable output voltage
- Overtemperature and short circuit protection

ENVIRONMENTAL

Operating temperature (baseplate): -40°C to +100°C

Storage temperature: -55°C to +105°C

Overtemperature protection: 110°C typical

MTBF: > 1 million hours (50°C baseplate)

SAFETY

UL	UL 1950	E182206
CSA	CSA22.2-234 CSA22.2-950	LR53982C
VDE	IEC950	
EN	60950	
CE	CEMark (LVD)	

ELECTRICAL SPECIFICATIONS

Input

Input Range ..... 18 to 36 VDC

Efficiency ..... 83% typical (5V @ 20A)
88% typical (12V @ 8.3A)

Control

Voltage Adjust ..... 90 to 110% Vo

Enable ..... TTL compatible (low to enable)

Output

Load Regulation ..... 0.2% typical

Line Regulation ..... 0.2% typical

Noise/Ripple ..... 150 mV typical (output below 5V)
3% typical (output 5V and over)

Remote sense ..... Up to 0.5V

Output Voltage
Adjust Range ..... ±10% of nominal output

Transient Response ..... 10% max deviation with (25-75% full load)
500µs (max) recovery

Overvoltage Protection ..... 130% nominal Vo
160% nominal Vo (2.2V)
140% nominal Vo (3.3V)

Current Limit ..... 115% Io max

NOTES

Nominal values apply with sense pins connected and other control pins unconnected.

Specifications subject to change without notice.

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AMERICAS
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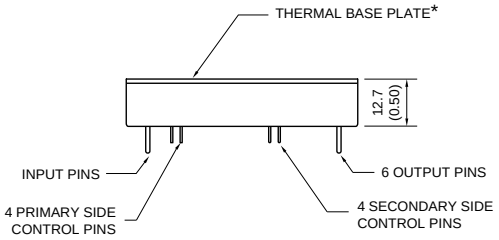
ORDERING INFORMATION

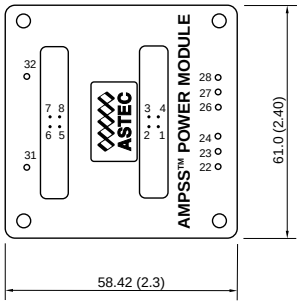
Input Voltage	Output Voltage	Output Current	Model Number
24V	2.2V	20A	AK60A-024L-022F20G
24V	3.3	20A	AK60A-024L-033F20G
24V	5V	20A	AK60A-024L-050F20G
24V	12V	8.3A	AK60A-024L-120F08G
24V	15V	6.7A	AK60A-024L-150F07G
24V	24V	4.2A	AK60A-024L-240F04G

Please contact Astec for information on other output voltages, power ranges and configurations.

DIMENSIONS



Connection example



**Must be connected to protective earth*
Viewed from pins side. Dimensions in mm (inches)

PIN ASSIGNMENTS

Input	Output		Control Pins	
31. +ve	22.		1. +SENSE	
32. –ve	23.	+ve	2. RSV	Secondary side controls
	24.		3. V ADJ	
	26.		4. -SENSE	
	27.	–ve	5. S COM	
	28.		6. C.Share	Primary side controls
			7. ENABLE	
			8. CLK IN	

CONNECTIONS